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Supco®

PCS220

Digital Charging Scale

User Guide

Introduction

Thank you for your purchase of the PCS220 electronic refrigerant programmable charging scale. The PCS220 utilizes the most technologically advanced and precise refrigerant meter available today with features that cannot be found anywhere else. It is ideal for HVAC and refrigeration service, including Critical Charging of small refrigeration systems. With the PCS220 you can measure weight in both English and metric units.

The PCS220 is programmable, and has a built-in alarm to indicate a programmed threshold has been exceeded.

Features

- High-visibility LCD display
- Measures weight in lbs and kgs
- Built-in memory remembers all previous settings
- Rugged, compact design
- High accuracy and resolution
- Programmable
- Can be calibrated in the field with inexpensive reference weight

Specifications

Capacity	220 pounds (100 kilograms)
Accuracy	0.5% of reading +/- 1 least significant digit
Resolution	0.010 lbs (5g)
Power	5 x 1.5 V 'AA' alkaline batteries (7.5 VDC)
Battery Life/Type	60 hours continuous use. Qty 5 "AA"
Operation Temperature	50°F - 122°F (10°C - 50°C)
Weight	6.03 lbs (2.74 kg)
Dimensions	9.13" x 9.13" x 2.28" (23.2cm x 23.2 x 5.8cm)

NOTE: To prevent damage, never exceed the rated capacity of the PCS220

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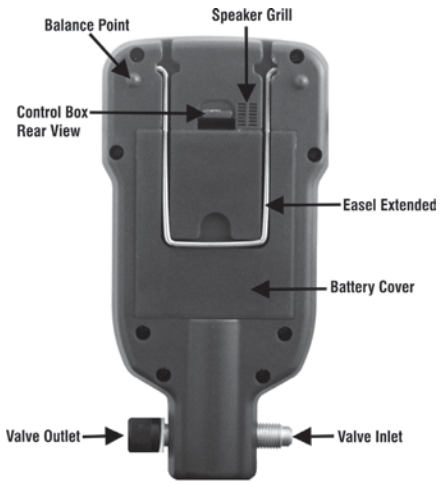

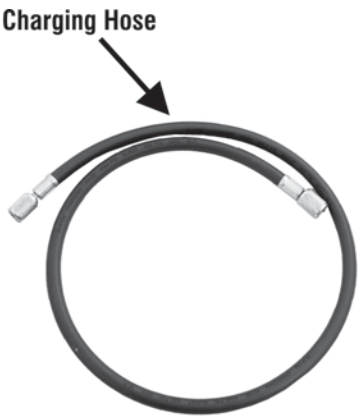

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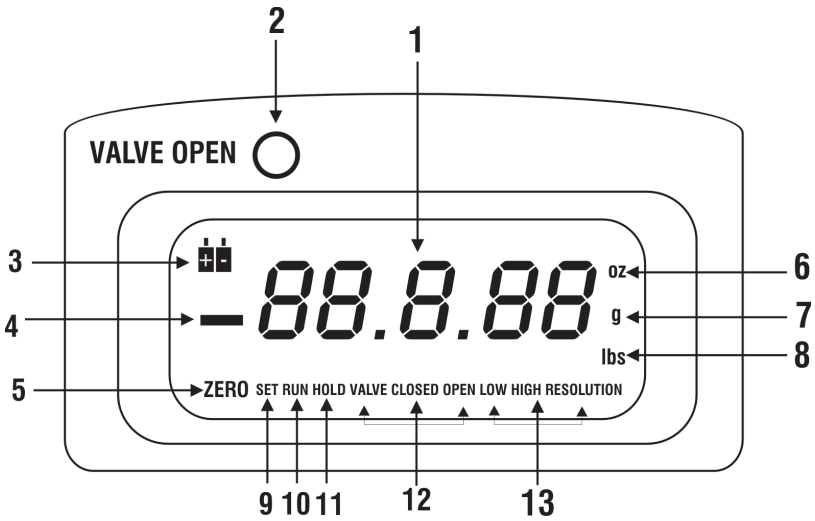
LCD Display



Item	Function
1	Main Numeric Display
2	Valve Indicator Light (ON / OFF)
3	Battery Level Indicator
4	“Floating” Negative Indicator (Indicates weight removed from platform)
5	Display “TARE / ZERO”
6	Indicate Units For oz
7	Indicate units For kg and g

Item	Function
8	Indicate Units For lbs
9	Programmable Weight Set
10	Run Mode Indicator
11	Hold Mode Indicator
12	Valve Open / Close
13	Set Resolution 2G (high) / 5G (low)

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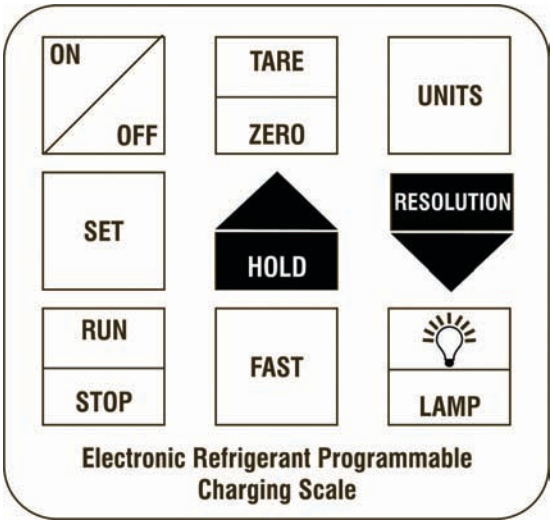
Keypad



ON / OFF	Press to power on. Press and hold 2 seconds to power off
TARE / ZERO	Press to "TARE / ZERO" current reading on display
UNITS	Shift imperial / metric measurements
FAST	Press to shift FAST / SLOW setting amount. Use '5g' setting when you need to increase / reduce within 1 kg. Use '100g' setting when you need to increase / reduce beyond 1 kg.
SET	Press "SET" to start program amount
HOLD	Press to increase setting charging amount or pause when charging
RESOLUTION	Press to reduce setting charging amount / Switch 2G or 5G resolution
RUN / STOP	Activates / Deactivates stored program. Check if electromagnetic valve operates normally.
LAMP	LCD background lamp

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Basic Weighing Operation

To operate the PCS220 as a basic weight scale, perform the following steps:

1. Remove the PCS220 from the carry case.

2. When using the PCS220, ensure the coiled cord does not touch the top of the weighing platform, or inaccuracies may result.

3. If desired, extend the easel at the top back of the control box by pulling it out. The easel may be used straight for hanging, or folded at an angle for resting on a level surface.

4. Install the batteries into the control box as described in the "Battery installation" section below.
5. Place the weighing platform on a firm, level surface.
6. Turn the PCS220 ON by pressing

7. Select the proper measurement units by repeated pressing.

The units will cycle as follows: kilograms pounds

8. If using a container to hold the objects being measured, place it empty on the center of the platform.
9. Press

to "zero-out" the scale. The display will read zero.
10. Place the material to measure in the container or on the center of the platform.

11. Read the weight on the display.

12. A positive number indicates the applied weight is greater than the zero value.
A negative number indicates the applied weight is less than the zero value.

13. Turn the PCS220 OFF by pressing

until the scale turns off.
14. To conserve battery life, the PCS220 will turn itself off after 30 minutes of inactivity, unless it is currently running a program (see programming section). The last state of the PCS220 will be restored upon power-up.

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Refrigerant charging / recovery operation

1. Install the batteries into the control box as described in the “Battery Installation” section on page 8.

2. Place the weighing platform on a firm, level surface.

3. Connect one end of charging hose to “INLET” and the other end to refrigerant tank.

4. Connect one end of charging hose to “OUTLET” and the other end to either the manifold gauge or auto A/C system.

5. Turn on the PCS220 by pressing

.

6. Select the proper measurement units by repeated

pressing. The units will cycle as follows: kilograms ◄——► pounds.

7. Place the refrigerant tank on the center of platform and open refrigerant tank valve, weight displayed on the screen.

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8. Press SET to set weight.

(1). If set weight within 1kg, press HOLD or RESOLUTION repeatly.

Press RUN/STOP to start charging work.

(2). If set weight beyond 1 kg, press FAST and press HOLD

or RESOLUTION repeatly, press RUN/STOP to start charging work.

9. When finished refrigerant charging, the Valve will auto shut off and alarm for 6 seconds.

Note:

1. Press HOLD if you want to pause the charging work.

2. Press RUN/STOP if you want to stop and cancel charging work.

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Battery Installation

1. Remove the battery cover from the rear of the control box by compressing tab at the base of the battery cover.

2. If necessary, remove old set of batteries.

3. Insert 5 'AA'. Replace battery cover by aligning

Important:

TO PREVENT DAMAGE TO THE PCS220, CAREFULLY OBSERVE BATTERY POLARITY AS MARKED INSIDE THE BATTERY COMPARTMENT. DO NOT LEAVE DEAD BATTERIES INSIDE THE CONTROL BOX. REMOVE BATTERIES IF THE PCS220 IS NOT TO BE USED FOR AN EXTENDED PERIOD OF TIME.

Over Range Indicator

If the weight applied to the weighing platform exceeds the maximum capacity of the PCS220 (200 lbs), 'OL' will be displayed in the middle of the display. To prevent damage to the PCS220, immediately remove the weight from the platform.

Parts Included

1. 1 set refrigerant charging scale

2. 5 PCS 1.5V "AA" alkaline batteries

3. 1 PCS charging hose

4. 1 user's guide manual

5. 1 PCS molded case

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